

MLFB-Ordering data

6SL3210-1KE28-4AF1



Client order no. : Order no. : Offer no. : Remarks :

ltem no. :
Consignment no. :
Project :

Rated da	Rated data General tech. specifications		ions	
Input		Power factor λ	0.90 .	0.95
Number of phases	3 AC	Offset factor cos φ	0.99	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.98	
Line frequency	47 63 Hz	Sound pressure level (1m)	72 dB	
Rated current (LO)	76.00 A	Power loss	1.02	κW
Rated current (HO)	69.00 A	Filter class (integrated)	Class	A
Output		-		
Number of phases	3 AC	Ambient	conditions	
Rated voltage	400 V	Cooling	Air cooling ι	ising an integrated fan
Rated power IEC 400V (LO)	45.00 kW	Cooling air requirement	0.055 m³/s (1 942 ft ³ /s)
Rated power NEC 480V (LO)	50.00 hp	Installation altitude	1000 m (32	
Rated power IEC 400V (HO)	37.00 kW		1000 111 (32)	50.64 1()
Rated power NEC 480V (HO)	40.00 hp	Ambient temperature	20 40.00	
Rated current (IN)	82.50 A	Operation		(-4 104 °F)
Rated current (LO)	82.50 A	Transport		(-40 158 °F)
Rated current (HO)	68.00 A	Storage	-40 70 °C	(-40 158 °F)
Max. output current	136.00 A	Relative humidity		
Pulse frequency	4.000 kHz	Max. operation	95 % RH, co	ndensation not permitted
Output frequency for vector control	0 240 Hz			
		Closed-loop co	ontrol techr	niques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramete	erizable	Yes
		V/f with flux current control (FCC	:)	Yes
Overload capability		V/f ECO linear / square-law		Yes
Low Overload (LO)		Sensorless vector control		Yes
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a		Vector control, with sensor		No
300 s cycle time		Encoderless torque control		No
High Overload (HO) 200 % base load current IH for 3 s, followed by	150 % base load current IH for 57 s in a	Torque control, with encoder		No

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time



MLFB-Ordering data

6SL3210-1KE28-4AF1



NA -				
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP	
Size	FSD	Connections		
Net weight	19.50 kg (42.99 lb)	Signal cable		
Width	200 mm (7.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 A	
Height	472 mm (18.58 in)	Line side		
Depth	237 mm (9.33 in)	Version	screw-type terminal	
Inputs / outputs		Conductor cross-section	10.00 35.00 mm² (AWG 8	
tandard digital inputs		Motor end		
Number	6	Version	Screw-type terminals	
Switching level: 0→1	11 V	Conductor cross-section	10.00 35.00 mm² (AWG 8	
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	Version	Screw-type terminals	
ail-safe digital inputs		Conductor cross-section	10.00 35.00 mm² (AWG 8	
Number	1	Line length, max.	10 m (32.81 ft)	
igital outputs		PE connection	Screw-type terminals	
Number as relay changeover contact	1	Max. motor cable length	Selew type terminals	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	200 m (656.17 ft)	
Number as transistor	1	Unshielded	300 m (984.25 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
nalog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Lov Directive 2006/95/EC	
witching threshold as digital in	but			
0→1	4 V			
1→0	1.6 V			

Number

1 (Non-isolated output)

PTC/ KTY interface

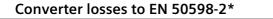
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$



MLFB-Ordering data

6SL3210-1KE28-4AF1





Efficiency class IE2 Comparison with the reference converter (90% / -54.91 % 100%) ••• 1122.0 W (2.16 %) 774.0 W (1.49 %) 904.0 W (1.40 %) 100% 447.0 W (0.86 %) 494.0 W (0.95 %) 566.0 W (1.09 %) 50% 338.0 W (0.65 %) 359 W (0.69 %) 25% f 50% 90%

The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard EN 50598) of the relative torque generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

*converted values